

# Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: AAG91 Scale: Research

<sup>N</sup> End	Biotin
"N"-TGR / GMS / GGR / SSR / TRR / ETQ / L - 'C'	

Length: 19

C' End: 2320 - 2318.35

Molecular Weight: 2094

,<sub>3</sub>

Quantity: 20 mg 0.015 mmole

Form: Lyophilized powder.

Analysis:

- \* HPLC
- \* Amino acid
- \* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017449

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

Genemed Synthesis, Inc.  
213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.  
Tel: 650-952-8193 Fax: 650-952-9540 www.genemedsyn.com

Data: 0-100 pepanal 006

Sample: 17449 25 $\mu$ l injected  
Column: Vydac C18 1ml/min  
Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN  
Gradient: 0-100% B, 20'  
Monitor: 220nm, 1.0 AUFS

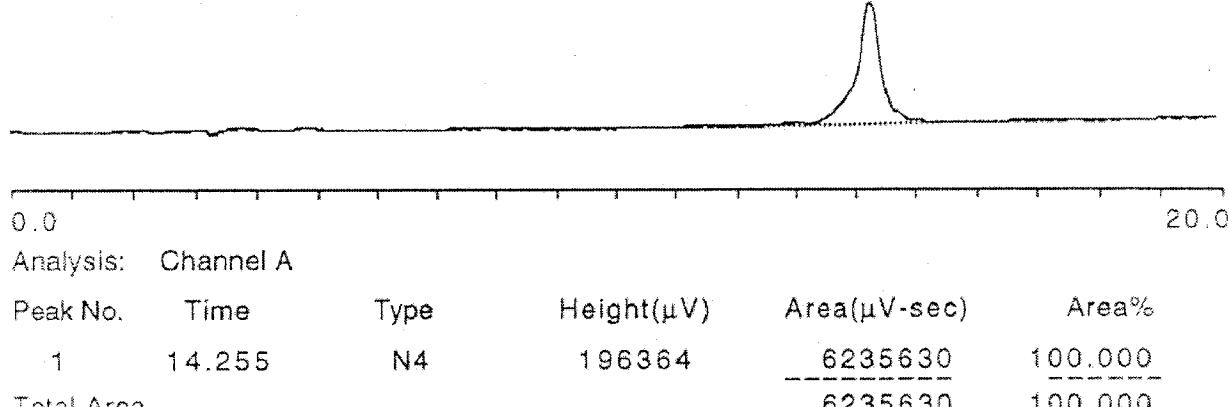
Processing File: profile#1

Method: 0-100 pepanal

Inject Vol:

Sampling Int: 0.1 Seconds

Data:



Analysis: Channel A

Peak No.	Time	Type	Height( $\mu$ V)	Area( $\mu$ V-sec)	Area%
1	14.255	N4	196364	6235630	100.000
Total Area				6235630	100.000

## Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: AA70.1 Scale: Research

N End:	Biotin
N--SGG / NRA / RQE / RLQ / RRR / ETQ /	
V ~ 'C'	

Length: 19

T<sup>°</sup> End:

~~2522.52~~ RK

Molecular Weight: 2,298

3

Quantity:

20 mg ~~1.411~~ 2 mmole

Form: Lyophilized powder.

Analysis:

\* HPLC

\* Amino acid

\* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017450

2800  
3000  
3200  
3400  
s (m/z)

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Laser: 2230  
Scans Averaged: 61  
Pressure: 6.61e-07  
Low Mass Gate: OFF

Mirror Ratio: 1.070  
PSD Mirror Ratio:  
Timed Ion Selector: 16.1 ms  
Negative

Date:

Data: 0-100 pepanal. 016

Sample: 17450 25 $\mu$ l injected

Column: Vydac C18 1ml/min

Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN

Gradient: 0-100% B, 20'

Monitor: 220nm, 1.0 AUFS

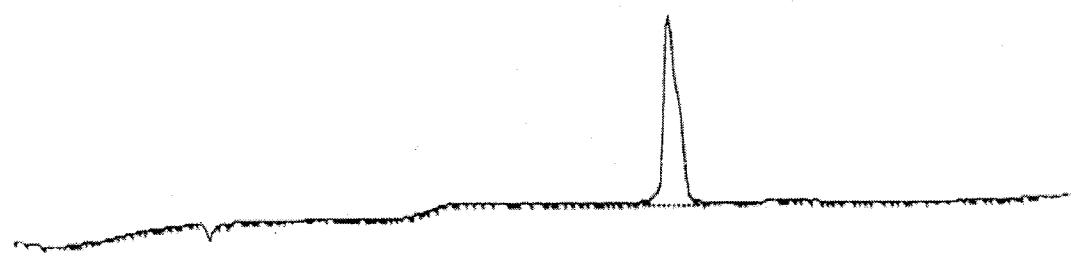
Processing File: profile#1

Method: 0-100 pepanal

Inject Vol:

Sampling Int: 0.1 Seconds

Data:



0.0

Analysis: Channel A

Peak No.	Time	Type	Height( $\mu$ V)	Area( $\mu$ V-sec)	A%
1	10.780	N	96091	1355988	100
Total Area				1355988	100

# Custom Peptide Synthesis

## Certificate of Analysis

Sequence Name: AA72.1 Scale: Research

N <sup>+</sup> End:	Biotin
N <sup>+</sup> -AAG / GRSS / ARG / GRL / QGR / RET /	
AL - C	

Length: 20

C<sup>+</sup> End:

~~2267~~ 2265.41 RE

Molecular Weight:

~~2044~~

<sup>3</sup>  
3

Quantity:

~~20~~ mg ~~0.15~~ mmole

Form: Lyophilized powder.

Analysis:

- \* HPLC
- \* Amino acid
- \* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017517

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213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.  
Tel: 650-952-8193 Fax: 650-952-9540 www.genmedsyn.com

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Data:

C<sup>2</sup>

Sample: 17517 25μl injected

2

Monitor: 220nm, 1.0 AUFS  
Method: 0-100% B, 20  
Injct Vol: 0.1 μl  
Sampling Int: 0.1 Seconds

Processing File: profile#1

Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN  
Gradient: 0-100% B, 20  
Monitor: 220nm, 1.0 AUFS  
Data: 0-100

-014



## Certificate of Analysis

Peptide Name: AA80.1

Run Number: 17702

Sequence: Biotin-Gly-Arg-Trp-Thr-Gly-Arg-Ala-Met-Ser-Ala-Trp-Lys-Pro-Thr-Arg-Arg-Glu-Thr-Glu-Val-OH

Theoretical Mass( $M+H^+$ ): 2603.0 2600.51

Mass Found( $M+H^+$ ): 2602.3

Solubility: Dissolve 1mg of peptide in 1ml Water

Appearance: White Powder

HPLC Purity: > \*N/A %

Amount Delivered: 100 mg \*Customer requested unpurified peptide

Storage : Keep Refrigerated

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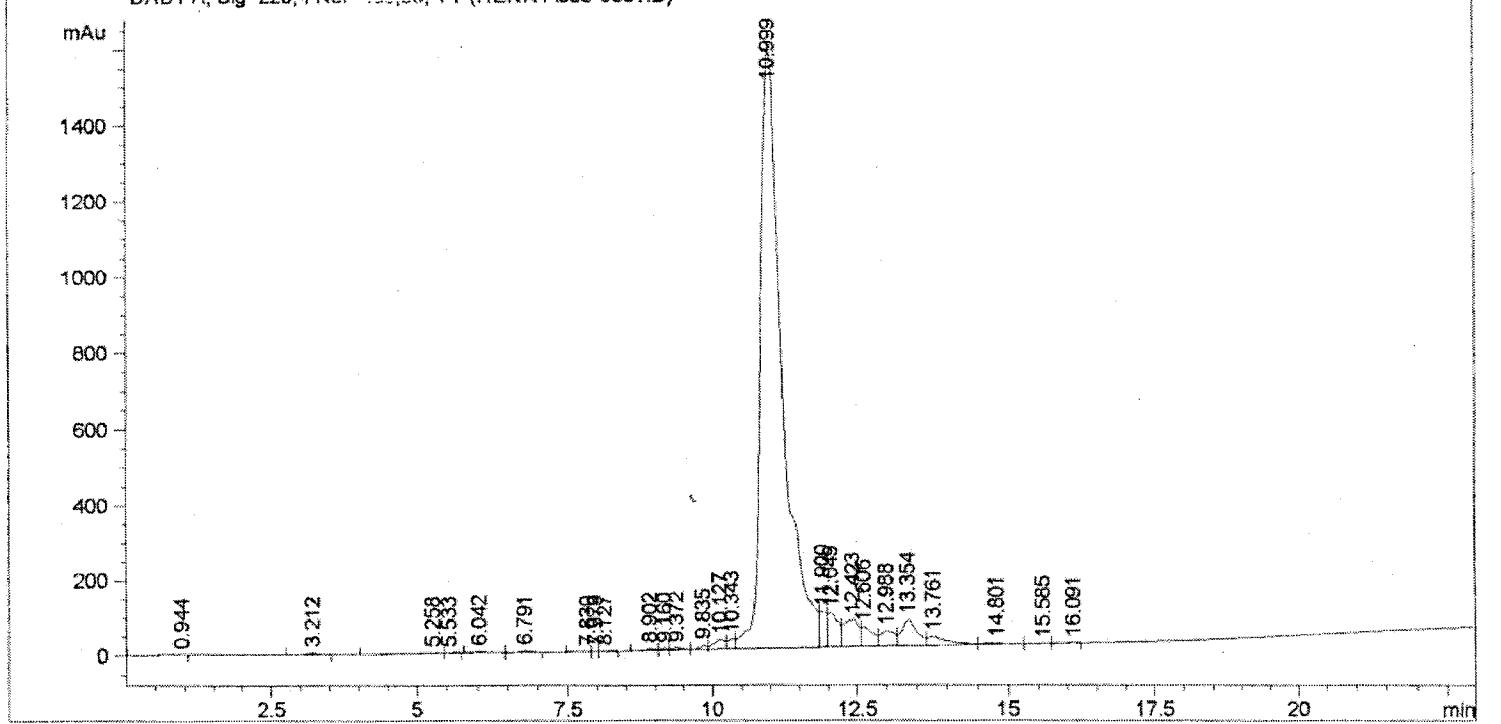
Remarks: Not for Human Use. Research Purposes Only.

Release By: Jaswinder Kaur Date: \_\_\_\_\_

*Quality Control*

=====
 Injection Date : Seq. Line : 6
 Sample Name : AA80.1 Vial : 35
 Acq. Operator : HENRY Inj : 1
 Inj Volume : 5  $\mu$ l
 Different Inj Volume from Sequence ! Actual Inj Volume : 2  $\mu$ l
 Sequence File : C:\HPCHEM\1\SEQUENCE\DEF\_LC.S
 Method : C:\HPCHEM\1\METHODS\0-100-20.M
 Last changed : 11:04:52 AM by HENRY

DAD1 A, Sig=220,4 Ref=450,80, TT (HENRY035-0601.D)



## ===== Area Percent Report =====

Sorted By : Signal
 Multiplier : 1.0000
 Dilution : 1.0000

Signal 1: DAD1 A, Sig=220,4 Ref=450,80, TT
 Results obtained with standard integrator!

Peak #	RetTime [min]	Type	Width [min]	Area [mAu*s]	Height [mAu]	Area %
1	0.944	BV	1.0963	27.31302	2.94576e-1	0.0558
2	3.212	BV	0.2199	65.38581	4.18458	0.1336
3	5.258	PV	0.3324	38.73496	1.52027	0.0792
4	5.533	VB	0.1817	8.00819	7.34552e-1	0.0164
5	6.042	BV	0.1638	48.28724	4.21066	0.0987
6	6.791	PV	0.1581	51.54432	4.71076	0.1053
7	7.830	PV	0.2492	13.29615	6.67421e-1	0.0272
8	7.979	VV	0.0858	3.90877	6.33285e-1	7.988e-3
9	8.127	VB	0.1281	7.46610	7.92417e-1	0.0153
10	8.902	PV	0.1558	68.03886	5.92069	0.1390
11	9.160	VV	0.1115	43.50458	5.49541	0.0889

# Custom Peptide Synthesis

## Certificate of Analysis

10:31 AM      Sample: 45

Sequence Name: \_\_\_\_\_ Scale: \_\_\_\_\_ Research \_\_\_\_\_

'N' End:	Biotin
'N'-AVG / GRP / ARG / GRL / QGR / RQT /	
QV -- 'C'	
'C' End:	

7 rms  
1007.MS

Collected:

Molecular Weight: 2345.49  
2421

Quantity: 2.0 mg 0.5 μL 0 μmole

Form: Lyophilized powder.

Analysis:

- \* HPLC
- \* Amino acid
- \* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017523

**PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA**

3000      3500

Mass (m/z)



Mirror Ratio: 1.070	Laser: 2190
PSD Mirror Ratio:	Scans Averaged: 12
Timed Ion Selector: 16.1 OFF	Pressure: 8.00e-07
Negative Ions: OFF	Low Mass Gate: OFF

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Date: 10.10.00 pepanal- 007

Sample: 17523 25 $\mu$ l injected  
Column: Vydac C18 1ml/min  
Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN  
Gradient: 0-100% B, 20'  
Monitor: 220nm, 1.0 AUFS

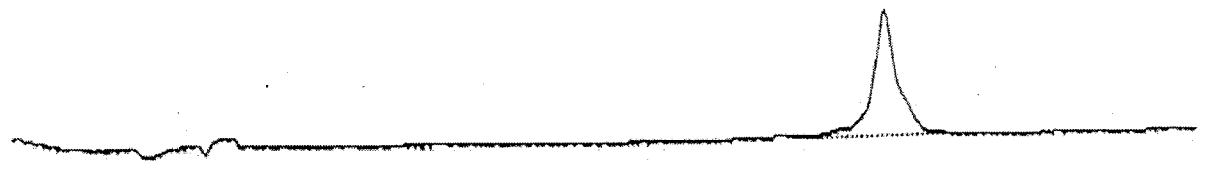
Processing File: profile#1

Method: 0-100 pepanal

Inject Volt:

Sampling Int: 0.1 Seconds

Data:



0.0 20.0

Analysis: Channel A

Peak No.	Time	Type	Height(μV)	Area(μV-sec)	Area%
1	14.721	N11	112398	3014595	100.000
Total Area				3014595	100.000



## Certificate of Analysis

Peptide Name: AA66.1

Run Number: 17700

Sequence: BIOTIN-Thr-Gly-Ser-Ala-Leu-Gln-Ala-Trp-Arg-His-Thr-Ser-Arg-Gln-Ala-Thr-Glu-Ser-Thr-Val-OH

Theoretical Mass( $M+H^+$ ): 2414.7

Mass Found( $M+H^+$ ): 2414.3

Solubility: Dissolve 1mg of peptide in 1ml Water

Appearance: White Powder

HPLC Purity: > \*N/A %

Amount Delivered: 100 mg \*Customer requested unpurified peptide

Storage : Keep Refrigerated

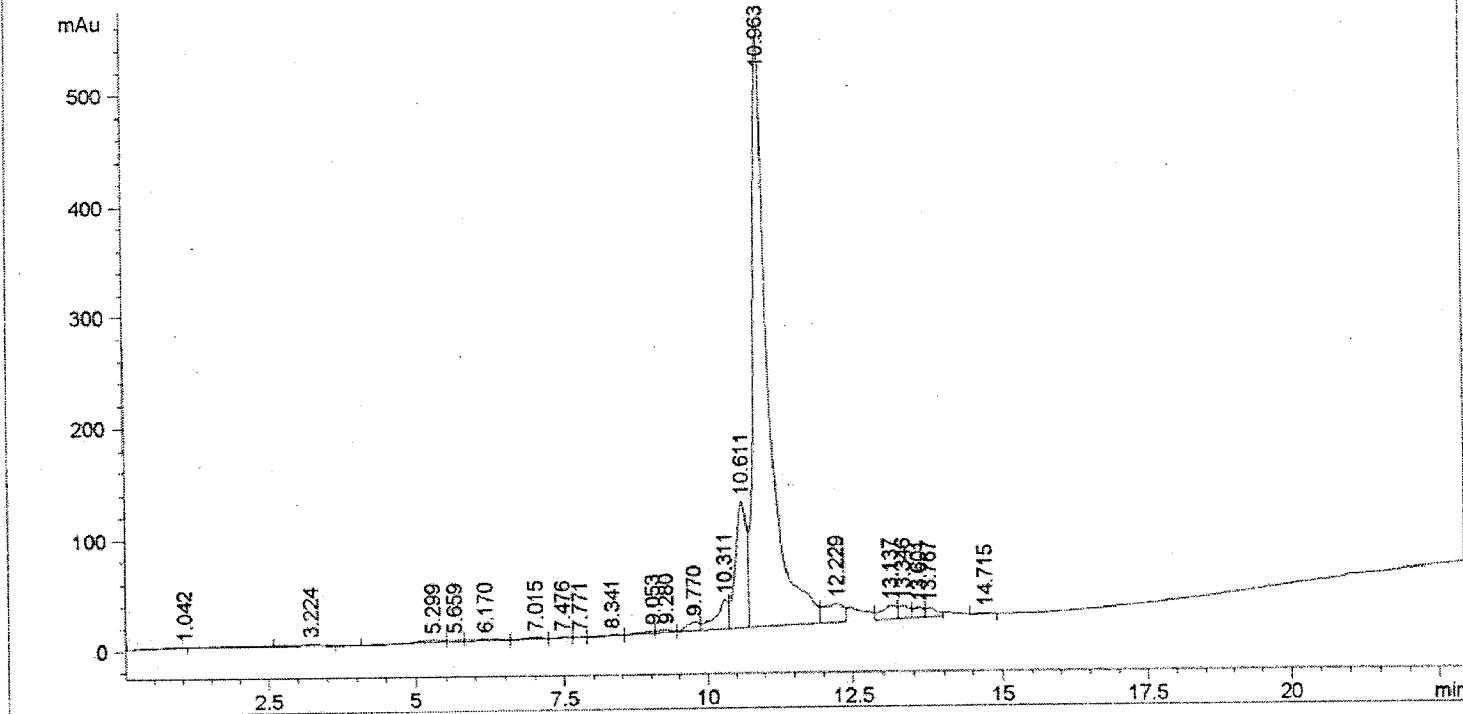
Remarks: Not for Human Use. Research Purposes Only.

Release By: Jaswinder Kaur Date: \_\_\_\_\_  
Quality Control

Data File C:\HPCHEM\1\DATA\HENRY\042-0301.D

Sample Name: AA66.1

=====
 Injection Date : 7:47:03 PM Seq. Line : 3  
 Sample Name : AA66.1 Vial : 42  
 Acq. Operator : HENRY Inj : 1  
 Inj Volume : 5  $\mu$ l  
 Different Inj Volume from Sequence ! Actual Inj Volume : 2  $\mu$ l  
 Sequence File : C:\HPCHEM\1\SEQUENCE\DEF\_LC.S  
 Method : C:\HPCHEM\1\METHODS\0-100-20.M  
 Last changed : 11:04:52 AM by HENRY  
 DAD1 A, Sig=220,4 Ref=450,80, TT (HENRY042-0301.D)



## ===== Area Percent Report =====

Sorted By : Signal  
 Multiplier : 1.0000  
 Dilution : 1.0000

Signal 1: DAD1 A, Sig=220,4 Ref=450,80, TT  
 Results obtained with standard integrator!

Peak #	RetTime [min]	Type	Width [min]	Area [mAu*s]	Height [mAu]	Area %
1	1.042	BV	3.5187	29.64368	1.00569e-1	0.2185
2	3.224	BV	0.2008	29.17170	1.88686	0.2151
3	5.299	BV	0.3742	87.51175	2.88747	0.6452
4	5.659	VV	0.2618	37.78679	2.13710	0.2786
5	6.170	VV	0.4283	68.21159	1.91198	0.5029
6	7.015	VV	0.2753	40.34123	1.83774	0.2974
7	7.476	VV	0.1824	12.75530	9.23668e-1	0.0940
8	7.771	VV	0.1100	3.22723	3.85199e-1	0.0238
9	8.341	PV	0.1796	12.61311	1.15197	0.0930
10	9.053	PV	0.2286	44.93953	2.49896	0.3313
11	9.280	VV	0.2323	45.01051	2.51241	0.3318

Project No.

Book No. 164

TITLE

175x6 13A

4

From Page No. Start

## PRISM Matrix ELISA G Assay

Wootton

Date/Initials

## Reagents and Supplies

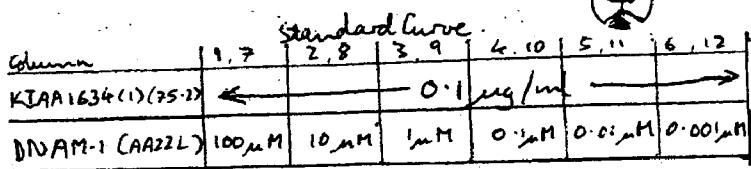
- Nunc Polysorp 96 well Immuno-plate, Nunc cat#62409-005 batch# 088642
- PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.25g KCl, 1.44g Na<sub>2</sub>HPO<sub>4</sub>, 0.24g KH<sub>2</sub>PO<sub>4</sub>, add H<sub>2</sub>O to 1L and pH 7.4; 0.2 µ filter) AVC lot# 97-88-2
- Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, ICN Biomedicals, cat#IC15142983 AVC lot# 97-11-5)
- Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 191545.
  - Dilute 1:1000 in PBS, final concentration 5 µg/ml. Date prepared 1/8/95 3:40P
- HRP-Streptavidin: 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 1815 3:40P
- dilute 1:2000 into Assay buffer, final [0.5 µg/ml]
- Wash Buffer, 0.2% Tween 20 in 50mM Tris pH 8.0, AVC lot# 97-107-02.
- Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)
- GST-PRISM proteins (stock stored at -80°C, after 1° thaw store in -10°C freezer #7)
- TMB (3,3',5,5', tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 07160
- 0.18M H<sub>2</sub>SO<sub>4</sub>, Sigma cat.#S1526, AVC lot# 97-85-01
- 12-w multichannel pipettor & tips
- 50 ml reagent reservoirs, Costar#4870
- 50, 15 ml polypropylene conical tubes
- Costar Transtar 96 Costar#7605
- Transtar 96 Cartridge Costar#7610
- Transtar Costar#
- Cluster tubes
- Molecular Devices microplate reader (450 & 650 nm filters)
- SoftMax Pro software

\*When using reagents stored at or 4°C or -20°C, remove & keep on ice

## Protocol

- Coat plate with 100 µl of 5 µg/ml anti-GST, O/N @ 4°C
- Dump contents of plate & out tap dry on paper towels
- Add 200 µl Assay Buffer for 2 hrs at 4°C
- Prepare proteins and peptides in Assay Buffer
- Wash 3X with cold PBS\*
- Add proteins at 50 µl per well, incubate 1 to 2 hrs at 4°C
- Wash 3X with cold PBS\*
- Add peptides at 50 µl per well on ice (write time on plate)
- Incubate on ice after last peptide has been added for exactly 10 minutes
- Place at room temp for exactly 20 minutes
- Prepare HRP-Streptavidin within 10 minutes of time of use
- Promptly wash 3X with cold PBS
- Add 100 µl per well of HRP-Streptavidin (write time on plate)
- Incubate at 4°C for exactly 20 minutes
- Turn on plate reader and prepare files (store as 0105011kt1)
- Promptly wash 5X with Wash Buffer
- Add 100 µl/well TMB substrate (write time on plate)
- Incubate in dark at room temp for a maximum of 30 minutes
- Check plate periodically; if necessary take early readings at 650 nm
- stop reaction with 100 µl of 0.18M H<sub>2</sub>SO<sub>4</sub>, 30 min. after adding TMB
- Take last reading at 450 nm soon after stopping reaction
  - Leave last PBS in wells until ready for next step,  
i.e. do not let plates dry out

PEPTIDE												
	1	2	3	4	5	6	1	2	3	4	5	6
A	PROTEIN 1											
B	PROTEIN 2											
C	PROTEIN 3											
D	PROTEIN 4											
E	PROTEIN 5											
F	PROTEIN 6											
G	GST + LINKER CONTROL											
H	STANDARD CURVE						STANDARD CURVE					
Column	1,7	2,8	3,9	4,10	5,11	6,12						
KIAA1634(1)(75-2)				0.1 µg/ml								
DNA M-1 (AA22L)	100 µM	10 µM	1 µM	0.1 µM	0.01 µM	0.001 µM						



To Page No. 25

Witnessed & Understood by me,	Date	Invented by	Date
<i>[Signature]</i>		<i>[Signature]</i>	
		Recorded by	<i>[Signature]</i>

Project No.

Book No. 164

TITLE 175x6 13A

From Page No. 27

ELISA Plate  
Arbor Vita Corp. CONFIDENTIAL

Int. 8 1721

Creation Date 17:32:11 Creation Time 164 Notebook 24 Page Number 07 Template 450 Wavelength

#	Col.	Row	Peptide	Domain(s)	Prop. E	Prot. Class	Peptide	Lot #	Peptide Class	Active Substance	All Conc.	OD
1	1	A	7R00AA1694	2	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.177	
2	2	A	7R00AA1694	2	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.216	
3	3	A	7R00AA1694	2	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.151	
4	4	A	7R00AA1694	2	1	0	AA108.VOLL02 (modif)	780	10	0	0.080	
5	5	A	7R00AA1694	2	1	0	AA108.VOLL02 (modif)	882	10	0	0.100	
6	6	A	7R00AA1694	2	1	0	AT172PA-DEF (modif)A	885	10	0	0.207	
7	7	A	7R00AA1694	2	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.172	
8	8	A	7R00AA1694	2	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.232	
9	9	A	7R00AA1694	2	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.162	
10	10	A	7R00AA1694	2	1	0	AA089.pept (modif)	760	10	0	0.152	
11	11	A	7R00AA1694	2	1	0	AA108.VOLL02 (modif)	882	10	0	0.211	
12	12	A	7R00AA1694	2	1	0	AT172PA-DEF (modif)A	885	10	0	0.268	
13	13	A	7R00AA1694	2	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.112	
14	14	B	7R00AA1694	3	2	0	ATZ2.MPVV ES 68 (modif)	875	10	0	0.144	
15	15	B	7R00AA1694	3	2	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.368	
16	16	B	7R00AA1694	3	2	0	AA089.pept (modif)	760	10	0	0.088	
17	17	B	7R00AA1694	3	2	0	AA108.VOLL02 (modif)	882	10	0	0.103	
18	18	B	7R00AA1694	3	2	0	AT172PA-DEF (modif)A	885	10	0	0.07	
19	19	B	7R00AA1694	3	2	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.101	
20	20	B	7R00AA1694	3	2	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.136	
21	21	B	7R00AA1694	3	2	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.268	
22	22	B	7R00AA1694	3	2	0	AA089.pept (modif)	760	10	0	0.086	
23	23	B	7R00AA1694	3	2	0	AA108.VOLL02 (modif)	882	10	0	0.213	
24	24	B	7R00AA1694	3	2	0	AT172PA-DEF (modif)A	885	10	0	0.086	
25	25	C	7R00AA1694	4	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.106	
26	26	C	7R00AA1694	4	1	0	AT172PA-DEF (modif)A	885	10	0	0.165	
27	27	C	7R00AA1694	4	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.205	
28	28	C	7R00AA1694	4	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.322	
29	29	C	7R00AA1694	4	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.121	
30	30	C	7R00AA1694	4	1	0	AA089.pept (modif)	760	10	0	0.093	
31	31	C	7R00AA1694	4	1	0	AA108.VOLL02 (modif)	882	10	0	0.10	
32	32	C	7R00AA1694	4	1	0	AT172PA-DEF (modif)A	885	10	0	0.098	
33	33	C	7R00AA1694	4	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.105	
34	34	C	7R00AA1694	4	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.279	
35	35	C	7R00AA1694	4	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.541	
36	36	C	7R00AA1694	4	1	0	AA089.pept (modif)	760	10	0	0.093	
37	37	C	7R00AA1694	4	1	0	AA108.VOLL02 (modif)	882	10	0	0.117	
38	38	C	7R00AA1694	4	1	0	AT172PA-DEF (modif)A	885	10	0	0.098	
39	39	D	7R00AA1694	5	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.169	
40	40	D	7R00AA1694	5	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.097	
41	41	D	7R00AA1694	5	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.205	
42	42	D	7R00AA1694	5	1	0	AA089.pept (modif)	760	10	0	0.089	
43	43	D	7R00AA1694	5	1	0	AA108.VOLL02 (modif)	882	10	0	0.106	
44	44	D	7R00AA1694	5	1	0	AT172PA-DEF (modif)A	885	10	0	0.086	
45	45	D	7R00AA1694	5	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.102	
46	46	D	7R00AA1694	5	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.278	
47	47	D	7R00AA1694	5	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.112	
48	48	D	7R00AA1694	5	1	0	AA089.pept (modif)	760	10	0	0.088	
49	49	D	7R00AA1694	5	1	0	AA108.VOLL02 (modif)	882	10	0	0.175	
50	50	D	7R00AA1694	5	1	0	AT172PA-DEF (modif)A	885	10	0	0.098	
51	51	E	7R00AA1694	6	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.167	
52	52	E	7R00AA1694	6	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.048	
53	53	E	7R00AA1694	6	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.243	
54	54	E	7R00AA1694	6	1	0	AA089.pept (modif)	760	10	0	0.089	
55	55	E	7R00AA1694	6	1	0	AA108.VOLL02 (modif)	882	10	0	0.116	
56	56	E	7R00AA1694	6	1	0	AT172PA-DEF (modif)A	885	10	0	0.082	
57	57	E	7R00AA1694	6	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.146	
58	58	E	7R00AA1694	6	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.207	
59	59	E	7R00AA1694	6	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.359	
60	60	E	7R00AA1694	6	1	0	AA089.pept (modif)	760	10	0	0.086	
61	61	E	7R00AA1694	6	1	0	AA108.VOLL02 (modif)	882	10	0	0.161	
62	62	E	7R00AA1694	6	1	0	AT172PA-DEF (modif)A	885	10	0	0.086	
63	63	F	7R00AA1694	7	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.174	
64	64	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.047	
65	65	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.216	
66	66	F	7R00AA1694	7	1	0	AA089.pept (modif)	760	10	0	0.088	
67	67	F	7R00AA1694	7	1	0	AA108.VOLL02 (modif)	882	10	0	0.175	
68	68	F	7R00AA1694	7	1	0	AT172PA-DEF (modif)A	885	10	0	0.082	
69	69	F	7R00AA1694	7	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.102	
70	70	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.236	
71	71	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.313	
72	72	F	7R00AA1694	7	1	0	AA089.pept (modif)	760	10	0	0.081	
73	73	F	7R00AA1694	7	1	0	AA108.VOLL02 (modif)	882	10	0	0.184	
74	74	F	7R00AA1694	7	1	0	AT172PA-DEF (modif)A	885	10	0	0.085	
75	75	F	7R00AA1694	7	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.124	
76	76	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	875	10	0	0.278	
77	77	F	7R00AA1694	7	1	0	ATZ1.MPVV ES 68 (modif)	877	10	0	0.112	
78	78	G	7R00AA1694	7	1	0	AA089.pept (modif)	760	10	0	0.083	
79	79	G	7R00AA1694	7	1	0	AA108.VOLL02 (modif)	882	10	0	0.113	
80	80	G	7R00AA1694	7	1	0	AT172PA-DEF (modif)A	885	10	0	0.077	
81	81	G	7R00AA1694	7	1	0	AMT1.MPVV ES 67 (pept)	887	10	0	0.171	
82	82	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.162	
83	83	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.271	
84	84	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.061	
85	85	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.054	
86	86	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.059	
87	87	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.171	
88	88	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.257	
89	89	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.126	
90	90	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.067	
91	91	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.108	
92	92	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.193	
93	93	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.198	
94	94	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.437	
95	95	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.162	
96	96	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.021	
97	97	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.103	
98	98	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.162	
99	99	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.201	
100	100	H	7R00AA1694	8	2	0	AA220PAH-1	684	100	0	0.151	
101	101	H	7R00AA1694	8	2							

TITLE 186 x 6 11A

Project No. \_\_\_\_\_  
Book No. 157

From Page No. X

## PRISM Matrix ELISA G Assay

Date/Initials 8/17/01 KC, BK

## Reagents and Supplies

- Nunc Polysorp 96 well immuno-plate, Nunc cat#62409-005 batch# 045987
- PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.2g KCl, 1.44g Na<sub>2</sub>HPO<sub>4</sub>, 0.24g KH<sub>2</sub>PO<sub>4</sub>, add H<sub>2</sub>O to 1L and pH 7.4; 0.2 µ filter) AVC lot# 97-93-04
- Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, ICN Biomedicals, cat#IC15142983 AVC lot# 97-100-02)
- Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 19545
  - Dilute 1:1000 in PBS, final concentration 5 µg/ml. Date prepared 8/16/01
- HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 10162403
  - dilute 1:2000 into Assay buffer, final [0.5 µg/ml]
- Wash Buffer, 0.2% Tween 20 in 30mM Tris pH 8.0, AVC lot# 97-96-02
- Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)
- GST-PRISM proteins (stock stored @ -80°C, after 1<sup>st</sup> thaw store in -10°C freezer #7)
- TMB (3,3',5,5', tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 07160
- 0.18M H<sub>2</sub>SO<sub>4</sub>, Sigma cat.#S1526, AVC lot# 97-96-03
- 12-w multichannel pipettor & tips
- 50 ml reagent reservoirs, Costar#4870
- 50, 15 ml polypropylene conical tubes
- Costar Transtar 96 Costar#7605
- Transtar 96 Cartridge Costar#7610
- Transtar Costar#
- Cluster tubes
- Molecular Devices microplate reader (450 & 650 nm filters)
- SoftMax Pro software

\*When using reagents stored at or 4°C or -20°C, remove & keep on ice

## Protocol

- Coat plate with 100 µl of 5 µg/ml anti-GST, O/N @ 4°C
- Dump contents of plate & out tap dry on paper towels
- Add 200 µl Assay Buffer for 2 hrs at 4°C
- Prepare proteins and peptides in Assay Buffer
- Wash 3X with cold PBS\*
- Add proteins at 50 µl per well, incubate 1 to 2 hrs at 4°C
- Wash 3X with cold PBS\*
- Add peptides at 50 µl per well on ice (write time on plate)
- Incubate on ice after last peptide has been added for exactly 10 minutes
- Place at room temp for exactly 20 minutes
- Prepare HRP-Streptavidin within 10 minutes of time of use
- Promptly wash 3X with cold PBS
- Add 100 µl per well of HRP-Streptavidin (write time on plate)
- Incubate at 4°C for exactly 20 minutes
- Turn on plate reader and prepare files (store as 0105011kt1)
- Promptly wash 5X with Wash Buffer
- Add 100 µl/well TMB substrate (write time on plate)
- Incubate in dark at room temp for a maximum of 30 minutes
- Check plate periodically; if necessary take early readings at 650 nm
- Stop reaction with 100 µl of 0.18M H<sub>2</sub>SO<sub>4</sub>, 30 min. after adding TMB
- Take last reading at 450 nm soon after stopping reaction
  - Leave last PBS in wells until ready for next step,  
i.e. do not let plates dry out

## PEPTIDE

	1	2	3	4	5	6	1	2	3	4	5	6
A	PROTEIN 1											
B	PROTEIN 2											
C	PROTEIN 3											
D	PROTEIN 4											
E	PROTEIN 5											
F	PROTEIN 6											
G	GST + LINKER CONTROL											
H	STANDARD CURVE						STANDARD CURVE					

Column PSD95(1) #143.1 Tax AA56L	1,7	2,8	3,9	4,10	5,11	6,12
	5µg/ml					
	5µM	1.19µM	0.283µM	0.067µM	0.016µM	0.004µM

186 x 6

183 x 6

36.2 → Neuroigin - differently made  
 36.3 → biotinylated peptides for comparison  
 80.1 HPV 26  
 215 HIV  
 250 Serotonin  
 258 Noradrenaline

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Witnessed &amp; Understood by me,

Marjorie Jones

Date

Invented by

Date

Recorded by

Kathleen Adams B

**ITLE**

186 x 611 A

**Project No.**

Book No. 157

**From Page No. 81**

ELISA Plate  
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Audit View - CONFIDENTIAL										
Creation Date	Creation Time	Notebook	Page Number	Template:	Yield:	Length:				
2023-01-01	08:00:00	157	63	07	450					
#	Col.	Row	Protein	Demand(s)	Prod. #	Pres. %	Peptide	Led #	Peptide Count	Active Subst.
1	1	A	77KDA1824	3	2	5	AAB23NeuroHigh Dimer 1	804	10	
2	2	A	77KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	805	10	
3	3	A	77KDA1824	3	2	5	AAB11UVFV ES 655 (peptide)	806	10	
4	4	A	77KDA1824	3	2	5	AAB11CKTPE PV-Cov-con	807	10	
5	5	A	77KDA1824	3	2	5	AAB23NeuroHigh receptor	808	8.1	
6	6	A	77KDA1824	3	2	5	AAB23NeuroHigh tripeptide	809	10	
7	7	A	77KDA1824	3	2	5	AAB23NeuroHigh Dimer 1	810	10	
8	8	A	77KDA1824	3	2	5	AAB23NeuroHigh Dimer 1	811	10	
9	9	A	77KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	812	10	
10	10	A	77KDA1824	2	2	5	AAB23NeuroHigh (PV-Cov-con)	813	10	
11	11	A	77KDA1824	3	2	5	AAB23NeuroHigh receptor	814	10	
12	12	A	77KDA1824	3	2	5	AAB23NeuroHigh (PV-Cov-con)	815	10	
13	13	A	77KDA1824	4	1	5	AAB23NeuroHigh receptor	816	8.1	
14	14	B	78KDA1824	4	1	5	AAB23NeuroHigh tripeptide	817	10	
15	15	B	78KDA1824	4	1	5	AAB23NeuroHigh Dimer 1	818	10	
16	16	B	78KDA1824	4	1	5	AAB23NeuroHigh Dimer 1	819	10	
17	17	B	78KDA1824	4	1	5	AAB23NeuroHigh Dimer 1	820	10	
18	18	B	78KDA1824	4	1	5	AAB11UVFV ES 655 (peptide)	821	10	
19	19	B	78KDA1824	4	1	5	AAB11CKTPE PV-Cov-con	822	10	
20	20	B	78KDA1824	4	1	5	AAB23NeuroHigh receptor	823	8.1	
21	21	B	78KDA1824	4	1	5	AAB23NeuroHigh tripeptide	824	10	
22	22	C	78KDA1824	5	1	5	AAB23NeuroHigh Dimer 1	825	10	
23	23	C	78KDA1824	5	1	5	AAB23NeuroHigh Dimer 1	826	10	
24	24	C	78KDA1824	5	1	5	AAB23NeuroHigh Dimer 1	827	10	
25	25	C	78KDA1824	5	1	5	AAB11UVFV ES 655 (peptide)	828	10	
26	26	C	78KDA1824	5	1	5	AAB11CKTPE PV-Cov-con	829	10	
27	27	C	78KDA1824	5	1	5	AAB23NeuroHigh receptor	830	8.1	
28	28	C	78KDA1824	5	1	5	AAB23NeuroHigh tripeptide	831	10	
29	29	D	78KDA1824	5	1	5	AAB23NeuroHigh Dimer 1	832	10	
30	30	D	78KDA1824	5	1	5	AAB11UVFV ES 655 (peptide)	833	10	
31	31	D	78KDA1824	5	1	5	AAB11CKTPE PV-Cov-con	834	10	
32	32	D	78KDA1824	5	1	5	AAB23NeuroHigh receptor	835	8.1	
33	33	D	78KDA1824	5	1	5	AAB23NeuroHigh tripeptide	836	10	
34	34	D	78KDA1824	5	1	5	AAB23NeuroHigh Dimer 1	837	10	
35	35	D	78KDA1824	5	1	5	AAB11UVFV ES 655 (peptide)	838	10	
36	36	D	78KDA1824	5	1	5	AAB11CKTPE PV-Cov-con	839	10	
37	37	D	78KDA1824	5	1	5	AAB23NeuroHigh receptor	840	8.1	
38	38	D	78KDA1824	5	1	5	AAB23NeuroHigh tripeptide	841	10	
39	39	E	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	842	10	
40	40	E	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	843	10	
41	41	E	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	844	10	
42	42	E	78KDA1824	2	2	5	AAB23NeuroHigh receptor	845	8.1	
43	43	E	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	846	10	
44	44	F	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	847	10	
45	45	F	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	848	10	
46	46	F	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	849	10	
47	47	F	78KDA1824	2	2	5	AAB23NeuroHigh receptor	850	8.1	
48	48	F	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	851	10	
49	49	G	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	852	10	
50	50	G	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	853	10	
51	51	G	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	854	10	
52	52	G	78KDA1824	2	2	5	AAB23NeuroHigh receptor	855	8.1	
53	53	G	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	856	10	
54	54	H	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	857	10	
55	55	H	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	858	10	
56	56	H	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	859	10	
57	57	H	78KDA1824	2	2	5	AAB23NeuroHigh receptor	860	8.1	
58	58	H	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	861	10	
59	59	I	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	862	10	
60	60	I	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	863	10	
61	61	I	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	864	10	
62	62	I	78KDA1824	2	2	5	AAB23NeuroHigh receptor	865	8.1	
63	63	I	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	866	10	
64	64	J	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	867	10	
65	65	J	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	868	10	
66	66	J	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	869	10	
67	67	J	78KDA1824	2	2	5	AAB23NeuroHigh receptor	870	8.1	
68	68	J	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	871	10	
69	69	K	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	872	10	
70	70	K	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	873	10	
71	71	K	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	874	10	
72	72	K	78KDA1824	2	2	5	AAB23NeuroHigh receptor	875	8.1	
73	73	K	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	876	10	
74	74	L	78KDA1824	2	2	5	AAB23NeuroHigh Dimer 1	877	10	
75	75	L	78KDA1824	2	2	5	AAB11UVFV ES 655 (peptide)	878	10	
76	76	L	78KDA1824	2	2	5	AAB11CKTPE PV-Cov-con	879	10	
77	77	L	78KDA1824	2	2	5	AAB23NeuroHigh receptor	880	8.1	
78	78	L	78KDA1824	2	2	5	AAB23NeuroHigh tripeptide	881	10	
79	79	M	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	882	10	
80	80	M	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	883	10	
81	81	M	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	884	10	
82	82	M	78KDA1824	1	2	5	AAB23NeuroHigh receptor	885	8.1	
83	83	M	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	886	10	
84	84	N	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	887	10	
85	85	N	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	888	10	
86	86	N	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	889	10	
87	87	N	78KDA1824	1	2	5	AAB23NeuroHigh receptor	890	8.1	
88	88	N	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	891	10	
89	89	O	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	892	10	
90	90	O	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	893	10	
91	91	O	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	894	10	
92	92	O	78KDA1824	1	2	5	AAB23NeuroHigh receptor	895	8.1	
93	93	O	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	896	10	
94	94	P	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	897	10	
95	95	P	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	898	10	
96	96	P	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	899	10	
97	97	P	78KDA1824	1	2	5	AAB23NeuroHigh receptor	900	8.1	
98	98	P	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	901	10	
99	99	Q	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	902	10	
100	100	Q	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	903	10	
101	101	Q	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	904	10	
102	102	Q	78KDA1824	1	2	5	AAB23NeuroHigh receptor	905	8.1	
103	103	Q	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	906	10	
104	104	R	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	907	10	
105	105	R	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	908	10	
106	106	R	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	909	10	
107	107	R	78KDA1824	1	2	5	AAB23NeuroHigh receptor	910	8.1	
108	108	R	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	911	10	
109	109	S	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	912	10	
110	110	S	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	913	10	
111	111	S	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	914	10	
112	112	S	78KDA1824	1	2	5	AAB23NeuroHigh receptor	915	8.1	
113	113	S	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	916	10	
114	114	T	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	917	10	
115	115	T	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	918	10	
116	116	T	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	919	10	
117	117	T	78KDA1824	1	2	5	AAB23NeuroHigh receptor	920	8.1	
118	118	T	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	921	10	
119	119	U	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	922	10	
120	120	U	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	923	10	
121	121	U	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	924	10	
122	122	U	78KDA1824	1	2	5	AAB23NeuroHigh receptor	925	8.1	
123	123	U	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	926	10	
124	124	V	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	927	10	
125	125	V	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	928	10	
126	126	V	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	929	10	
127	127	V	78KDA1824	1	2	5	AAB23NeuroHigh receptor	930	8.1	
128	128	V	78KDA1824	1	2	5	AAB23NeuroHigh tripeptide	931	10	
129	129	W	78KDA1824	1	2	5	AAB23NeuroHigh Dimer 1	932	10	
130	130	W	78KDA1824	1	2	5	AAB11UVFV ES 655 (peptide)	933	10	
131	131	W	78KDA1824	1	2	5	AAB11CKTPE PV-Cov-con	934	10	
132	132	W	78KDA1824	1	2	5	AAB2			

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	Creation Date	Creation Time	Notebook	Page Number	Template	Wavelength				
	06-08-00	187	83	98	450					
Call	Col.	Row	Peptide	Dose(mg)	Prep #	Prev. Cope.	Peptide	Lat #	Peptide Cope.	Active Subst.
1	1	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	834	10	
2	2	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	835	10	
3	3	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	836	10	
4	4	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	837	10	
5	5	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	838	9.1	
6	6	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	839	10	
7	7	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	840	10	
8	8	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	841	10	
9	9	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	842	10	
10	10	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	843	10	
11	11	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	844	10	
12	12	A	MEK1AA1085	1	2	6	AASL3Hepatitis (Rat) 1	845	10	
13	1	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	846	10	
14	2	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	847	10	
15	3	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	848	10	
16	4	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	849	10	
17	5	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	850	10	
18	6	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	851	10	
19	7	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	852	10	
20	8	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	853	10	
21	9	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	854	10	
22	10	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	855	10	
23	11	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	856	10	
24	12	B	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	857	10	
25	1	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	858	10	
26	2	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	859	10	
27	3	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	860	10	
28	4	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	861	10	
29	5	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	862	10	
30	6	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	863	10	
31	7	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	864	10	
32	8	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	865	10	
33	9	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	866	10	
34	10	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	867	10	
35	11	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	868	10	
36	12	C	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	869	10	
37	1	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	870	10	
38	2	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	871	10	
39	3	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	872	10	
40	4	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	873	10	
41	5	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	874	10	
42	6	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	875	10	
43	7	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	876	10	
44	8	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	877	10	
45	9	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	878	10	
46	10	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	879	10	
47	11	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	880	10	
48	12	D	ST78A-1	1	1	6	AASL3Hepatitis (Rat) 1	881	10	
49	1	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	882	10	
50	2	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	883	10	
51	3	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	884	10	
52	4	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	885	10	
53	5	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	886	10	
54	6	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	887	10	
55	7	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	888	10	
56	8	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	889	10	
57	9	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	890	10	
58	10	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	891	10	
59	11	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	892	10	
60	12	E	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	893	10	
61	1	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	894	10	
62	2	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	895	10	
63	3	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	896	10	
64	4	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	897	10	
65	5	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	898	10	
66	6	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	899	10	
67	7	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	900	10	
68	8	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	901	10	
69	9	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	902	10	
70	10	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	903	10	
71	11	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	904	10	
72	12	F	ST90A-1	1	1	6	AASL3Hepatitis (Rat) 1	905	10	
73	1	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	906	10	
74	2	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	907	10	
75	3	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	908	10	
76	4	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	909	10	
77	5	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	910	10	
78	6	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	911	10	
79	7	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	912	10	
80	8	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	913	10	
81	9	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	914	10	
82	10	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	915	10	
83	11	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	916	10	
84	12	G	ST90T-1	1	1	6	AASL3Hepatitis (Rat) 1	917	10	
85	1	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	918	10	
86	2	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	919	10	
87	3	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	920	10	
88	4	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	921	10	
89	5	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	922	10	
90	6	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	923	10	
91	7	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	924	10	
92	8	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	925	10	
93	9	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	926	10	
94	10	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	927	10	
95	11	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	928	10	
96	12	H	ST90P-100	1	1	6	AASL3Hepatitis (Rat) 1	929	10	

To Page No. 58

**Witnessed & Understood by me,**

Date

**Invented by**

Date

Marguerite Jules

**Recorded by** *Deanne Palomar*



69x18 8.1A

m Page No. 80

Plate 81081																			
Creation Date			Creation Time		Notebook		Peptide			Wavelength									
	17:10:16	157	17	67	450		Cell	Cell	Row	Protein	Domain(s)	Prep.	Conc.	Peptide	Lot #	Peptide Conc.	Amylo. Substance	AB Conc.	SD
L	Row	Protein	Domain(s)	Prep.	Conc.	Peptide	Lot #	Peptide Conc.	Active Substance	AB Conc.	OD			Peptide	Lot #	Peptide Conc.	Amylo. Substance	AB Conc.	SD
A	79/T422 (See Protein)	1	4	6	AA16/VHPV E5 450 (cryst)	866	10	0.040	AA16/VHPV	1	1	1	AA16/VHPV E5 450 (cryst)	866	10		0.107		
A	79/T422 (See Protein)	1	4	6	AA089/alpha-1-tryptophin	747	10	0.173	AA089/alpha-1-	1	2	1	AA089/alpha-1-tryptophin	747	10		0.106		
A	79/T422 (See Protein)	1	4	6	AA125n-antib 2	567	10	0.095	AA125n-antib	1	3	1	AA125n-antib 2	567	10		0.241		
A	79/T422 (See Protein)	1	4	6	AA147Na-PI anticompete	760	10	0.096	AA147Na-PI	1	4	1	AA147Na-PI anticompete	760	10		0.095		
A	79/T422 (See Protein)	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.098	AA177L- $\alpha$ -M	1	5	1	AA16/VMDA Glutamate R	862	10		0.154		
A	79/T422 (See Protein)	1	4	6	AA180n/MDA Glutamate R	862	10	0.105	AA180n/MDA	1	6	1	AA180n/MDA Glutamate R	862	10		0.188		
A	79/T422 (See Protein)	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.095	AA46/VHPV	1	7	1	AA46/VHPV E5 450 (cryst)	747	10		0.103		
A	79/T422 (See Protein)	1	4	6	AA46/VHPV E5 450 (cryst)	747	10	0.095	AA46/VHPV	1	8	1	AA46/VHPV E5 450 (cryst)	747	10		0.103		
A	79/T422 (See Protein)	1	4	6	AA46/VHPV E5 450 (cryst)	747	10	0.238	AA46/VHPV	1	9	1	AA177L- $\alpha$ -M anticompete	760	10		0.11		
A	79/T422 (See Protein)	1	4	6	AA125n-antib 2	567	10	0.073	AA125n-antib	1	10	1	AA177L- $\alpha$ -M receptor	826	10		0.068		
A	79/T422 (See Protein)	1	4	6	AA147Na-PI anticompete	760	10	0.132	AA147Na-PI	1	11	1	AA16/VMDA Glutamate R	862	10		0.145		
A	79/T422 (See Protein)	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.072	AA177L- $\alpha$ -M	1	12	1	AA46/VHPV E5 450 (cryst)	866	10		0.258		
A	79/T422 (See Protein)	1	4	6	AA180n/MDA Glutamate R	862	10	0.092	AA180n/MDA	1	13	1	AA089/alpha-1-tryptophin	747	10		0.176		
B	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.095	AA46/VHPV	1	14	1	AA125n-antib 2	567	10		0.254		
B	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	747	10	0.095	AA46/VHPV	1	15	1	AA177L- $\alpha$ -M anticompete	760	10		0.151		
B	79/T422	1	4	6	AA125n-antib 2	567	10	0.238	AA125n-antib	1	16	1	AA177L- $\alpha$ -M receptor	826	10		0.111		
B	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.085	AA147Na-PI	1	17	1	AA16/VMDA Glutamate R	862	10		0.161		
B	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.132	AA177L- $\alpha$ -M	1	18	1	AA46/VHPV E5 450 (cryst)	866	10		0.15		
B	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.134	AA180n/MDA	1	19	1	AA089/alpha-1-tryptophin	747	10		0.186		
B	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.234	AA46/VHPV	1	20	1	AA125n-antib 2	567	10		0.186		
B	79/T422	1	4	6	AA125n-antib 2	567	10	0.092	AA125n-antib	1	21	1	AA177L- $\alpha$ -M receptor	826	10		0.066		
B	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.091	AA147Na-PI	1	22	1	AA16/VMDA Glutamate R	862	10		0.194		
B	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.094	AA177L- $\alpha$ -M	1	23	1	AA46/VHPV E5 450 (cryst)	866	10		0.148		
B	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.143	AA180n/MDA	1	24	1	AA089/alpha-1-tryptophin	747	10		0.194		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.132	AA177L- $\alpha$ -M	1	25	1	AA177L- $\alpha$ -M anticompete	760	10		0.191		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.048	AA180n/MDA	1	26	1	AA089/alpha-1-tryptophin	747	10		0.191		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.134	AA46/VHPV	1	27	1	AA177L- $\alpha$ -M anticompete	760	10		0.184		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.203	AA089/alpha-1-	1	28	1	AA177L- $\alpha$ -M receptor	826	10		0.066		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.161	AA125n-antib	1	29	1	AA16/VMDA Glutamate R	862	10		0.195		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.190	AA147Na-PI	1	30	1	AA46/VHPV E5 450 (cryst)	866	10		0.146		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.212	AA177L- $\alpha$ -M	1	31	1	AA089/alpha-1-tryptophin	747	10		0.190		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.143	AA180n/MDA	1	32	1	AA177L- $\alpha$ -M anticompete	760	10		0.191		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.085	AA46/VHPV	1	33	1	AA177L- $\alpha$ -M receptor	826	10		0.171		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.177	AA089/alpha-1-	1	34	1	AA177L- $\alpha$ -M anticompete	760	10		0.184		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.107	AA125n-antib	1	35	1	AA177L- $\alpha$ -M receptor	826	10		0.067		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.127	AA147Na-PI	1	36	1	AA16/VMDA Glutamate R	862	10		0.177		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.067	AA177L- $\alpha$ -M	1	37	1	AA46/VHPV E5 450 (cryst)	866	10		0.169		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.114	AA180n/MDA	1	38	1	AA089/alpha-1-tryptophin	747	10		0.111		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.105	AA46/VHPV	1	39	1	AA125n-antib 2	567	10		0.066		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.167	AA089/alpha-1-	1	40	1	AA177L- $\alpha$ -M anticompete	760	10		0.147		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.082	AA125n-antib	1	41	1	AA177L- $\alpha$ -M receptor	826	10		0.092		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.068	AA147Na-PI	1	42	1	AA16/VMDA Glutamate R	862	10		0.070		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.088	AA177L- $\alpha$ -M	1	43	1	AA46/VHPV E5 450 (cryst)	866	10		0.141		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.146	AA180n/MDA	1	44	1	AA089/alpha-1-tryptophin	747	10		0.186		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.177	AA46/VHPV	1	45	1	AA177L- $\alpha$ -M anticompete	760	10		0.171		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.146	AA089/alpha-1-	1	46	1	AA16/VMDA Glutamate R	862	10		0.169		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.177	AA125n-antib	1	47	1	AA46/VHPV E5 450 (cryst)	866	10		0.229		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.206	AA147Na-PI	1	48	1	AA089/alpha-1-tryptophin	747	10		0.142		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.137	AA177L- $\alpha$ -M	1	49	1	AA177L- $\alpha$ -M anticompete	760	10		0.135		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.148	AA180n/MDA	1	50	1	AA177L- $\alpha$ -M receptor	826	10		0.067		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.146	AA46/VHPV	1	51	1	AA177L- $\alpha$ -M anticompete	760	10		0.175		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.177	AA089/alpha-1-	1	52	1	AA16/VMDA Glutamate R	862	10		0.181		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.177	AA125n-antib	1	53	1	AA46/VHPV E5 450 (cryst)	866	10		0.209		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.167	AA147Na-PI	1	54	1	AA177L- $\alpha$ -M receptor	826	10		0.067		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.177	AA177L- $\alpha$ -M	1	55	1	AA16/VMDA Glutamate R	862	10		0.175		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.176	AA180n/MDA	1	56	1	AA46/VHPV E5 450 (cryst)	866	10		0.148		
C	79/T422	1	4	6	AA46/VHPV E5 450 (cryst)	866	10	0.172	AA46/VHPV	1	57	1	AA089/alpha-1-tryptophin	747	10		0.148		
C	79/T422	1	4	6	AA089/alpha-1-tryptophin	747	10	0.294	AA089/alpha-1-	1	58	1	AA125n-antib 2	567	10		0.081		
C	79/T422	1	4	6	AA125n-antib 2	567	10	0.297	AA125n-antib	1	59	1	AA177L- $\alpha$ -M receptor	826	10		0.078		
C	79/T422	1	4	6	AA147Na-PI anticompete	760	10	0.161	AA147Na-PI	1	60	1	AA16/VMDA Glutamate R	862	10		0.077		
C	79/T422	1	4	6	AA177L- $\alpha$ -M receptor	826	10	0.144	AA177L- $\alpha$ -M	1	61	1	AA46/VHPV E5 450 (cryst)	866	10		0.116		
C	79/T422	1	4	6	AA180n/MDA Glutamate R	862	10	0.149	AA180n/MDA	1	62	1	AA089/alpha-1-tryptophin	747	10				

## BIOGRAPHICAL SKETCH OF PETER S. LU, M.D.

NAME Lu, Peter Sin-yi eRA COMMONS USER NAME	POSITION TITLE President/CEO Arbor Vita Corporation		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
California Institute of Technology University of Washington University of Washington Medical School	B.S. M.S. M.D.	1977 1980 1988	Biology Microbiology/Immunology Medicine

### A. Positions and honors.

#### Positions and Employment

1988-1989 Medical intern, Internal Medicine; University of Washington Medical School  
1989-1994 Resident and research fellow, Department of Dermatology; Stanford University  
1992-1998 Post-Doctoral fellow, Howard Hughes Medical Institute; Stanford University  
1992-1998 Clinical Instructor, Attending, Psoriasis Day Care Center, Department of Dermatology, Stanford Medical School  
1995-present Director, Stanford Papua New Guinea Medical Project  
1998-present Founder, President, CEO, Arbor Vita Corporation  
2002-present Medical Director, Community Pregnancy Center, STD clinic

#### Research Experience and Appointments

1974-1976 Mechanism of antibody diversity; California Institute of Technology; advisor Leroy Hood, M.D./Ph.D.  
1977-1978 Gene regulation in development; California Institute of Technology; advisor Eric Davidson, Ph.D.  
1978-1981 Role of idiotypic network in tumor immunity; University of Washington; advisor Robert Nowinski, Ph.D.  
1981-1984 Eukaryotic gene regulation; University of Washington; advisor Harold Weintraub, M.D./Ph.D.  
1992-1998 Adhesion molecules in T cell activation; Howard Hughes Medical Institute, Stanford University; advisor Mark M. Davis, Ph.D.

#### Honors

1988 Alpha Omega Alpha, University of Washington  
1991 Resident Teaching Award, Stanford Medical School  
1991 Paul H. Jacobs Award, Stanford Medical School  
2001-Present Principal Investigator of Numerous Grants from the National Institutes of Health

### B. Peer-reviewed publications (in chronological order).

Murata, Y., Martin, C. B., Ikenoue, T., Lu, P. S. (1978). Antepartum evaluation of the pre-ejection period of the fetal cardiac cycle. Am. J. Ob/Gyn. 132: 278-284.

Kindel, S., Lu, P. S., Smoller, B. (1994). Intravascular crystals provide a diagnostic clue in the diagnosis of monoclonal cryoglobulinemia. J. Eur. Acad. Dermatol. Venereol. 3: 185-188.

Messika, E. J., Lu, P. S., Sung, Y. J., Yao., T., Chi, J. T., Chien, Y. H., Davis, M. M. (1998). Differential effect of B lymphocyte-induced maturation protein (Blimp-1) expression on cell fate during B cell development. J. Exp. Med. 188: 135-146